SONY

Integrated AV Amplifier

Operating instructions GB

Mode d'emploi F

Manual de Instrucciones E

Manual de Instruçõnes P

Betjeningsvejledning DK

Käyttöohje FIN

TA-VE110

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WARNING

To prevent fire or shock hazard, do not expose the unit to rain or moisture.

To avoid electrical shock, do not open the cabinet. Refer servicing to qualified personnel only.

Precautions

On safety

- Should any solid object or liquid fall into the cabinet, unplug the amplifier and have it checked by qualified personnel before operating it any further.

On power sources

- Before operating the amplifier, check that the operating voltage is identical with your local power supply. The operating voltage is indicated on the nameplate at the rear of the amplifier.
- The amplifier is not disconnected from the AC power source (mains) as long as it is connected to the wall outlet, even if the amplifier itself has been turned off.
- If you are not going to use the amplifier for a long time, be sure to disconnect the amplifier from the wall outlet. To disconnect the mains lead, grasp the plug itself; never pull the cord.
- The AC power cord (mains lead) must be changed, at a qualified service shop only.
- The mains switch is located on the front exterior.

On placement

- Do not install the appliance in a confined space, such as a bookcase or built in cabinet.
- Place the amplifier in a location with adequate ventilation to prevent heat buildup and prolong the life of the amplifier.
- Do not place the amplifier near heat sources, or in a place subject to direct sunlight, excessive dust or mechanical shock.
- Do not place anything on top of the cabinet that might block the ventilation holes and cause malfunctions.

On operation

- Before connecting other components, be sure to turn off and unplug the amplifier.

On cleaning

- Clean the cabinet, panel and controls with a soft cloth slightly moistened with a mild detergent solution. Do not use any type of abrasive pad, scouring powder or solvent such as alcohol or benzine.

If you have any question or problem concerning your amplifier, please consult your nearest Sony dealer.

About This Manual

Conventions

- The instructions in this manual describe the controls on the amplifier. You can also use the controls on the remote if they have the same or similar names as those on the amplifier.
- The following icons are used in this manual:

Indicates that you can use only the remote to do the task.

Indicates hints and tips for making the task easier.

This amplifier has the Dolby Surround system.
Manufactured under license from Dolby Laboratories Licensing Corporation.
"Dolby", the double-D symbol ◻◻ and "Pro Logic" are trademarks of Dolby Laboratories Licensing Corporation.

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GB

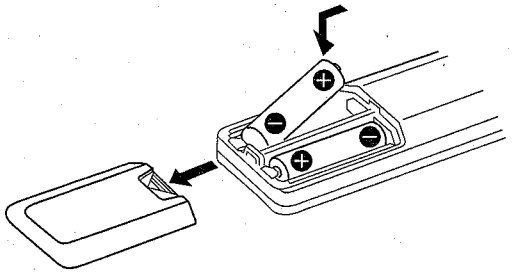
Unpacking

Check that you received the following items with your amplifier:

- Remote controller (remote) (1)
- Size AA (R6) batteries (2)
- Scart adaptor (1)

Inserting batteries into the remote

Insert two size AA (R6) batteries with the + and – on the battery compartment. When using the remote, point it at the remote sensor on the amplifier.



When to replace batteries

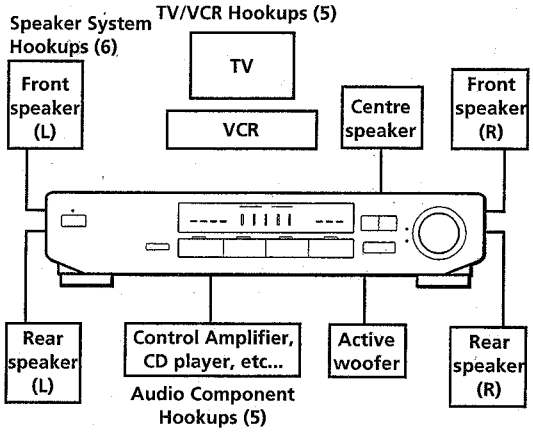
Under normal use, the batteries should last for about 6 months. When the remote no longer operates the amplifier, replace both batteries with new ones.

Notes

- Do not leave the remote in an extremely hot or humid place.
- Do not use a new battery with an old one.
- Do not expose the remote sensor to direct sunlight or lighting apparatuses. Doing so may cause a malfunction.
- If you don't use the remote for an extended period of time, remove the batteries to avoid possible damage from battery leakage and corrosion.

Hookup Overview

The amplifier allows you to connect and control the following audio components. Follow the hookup procedures for the components that you want to connect to the amplifier on the pages specified. To learn the locations and names of each jack, see "Rear Panel Descriptions" on page 13.



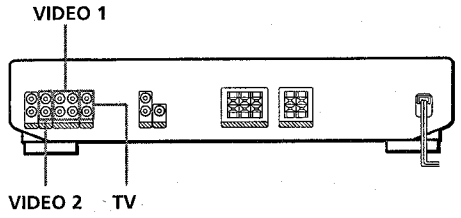
Before you get started

- Turn off the power to all components before making any connections.
- Do not connect the mains lead until all of the connections are completed.
- Be sure to make connections firmly to avoid hum and noise.
- When connecting an audio cable, be sure to match the colour-coded pins to the appropriate jacks on the components: White (left, audio) to White; and Red (right, audio) to Red.

TV/VCR Hookups

Overview

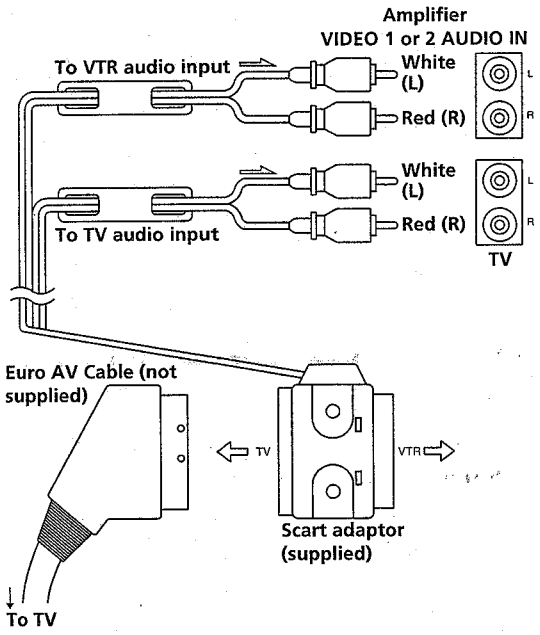
This section describes how to connect video components to the amplifier. For specific locations of the jacks, see the illustration below.



Hookups

The arrow ⇒ indicates signal flow.

You can listen to the sound from VCR or TV by connecting the audio signal from VCR or TV to the amplifier.



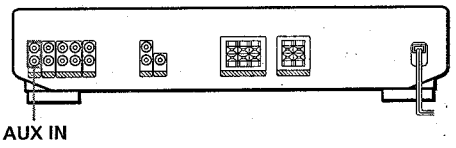
Use the function buttons (TV, VIDEO2, AUX) to select the VIDEO 1 AUDIO OUT signal. You can record this audio signal by connecting a recording component such as a cassette deck (to the VIDEO 1 AUDIO OUT jack).

If you have another component, such as a second VCR or LD player, connect it to the remaining VIDEO AUDIO IN jacks.

Audio Component Hookups

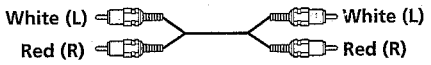
Overview

This section describes how to connect either an entire audio system or an individual audio component to the amplifier so you can listen to stereo sources in surround sound.
For specific locations of the jacks, see the illustration below.



What cords will I need?

Audio cord (not supplied) (1)

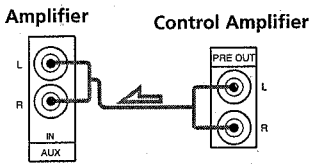


Hookups

The arrow ⇒ indicates signal flow.

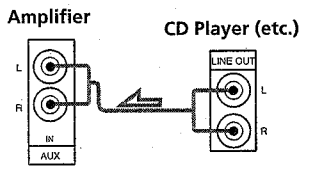
Audio system

Connect the PRE OUT, ADAPTER OUT, or TAPE REC jacks on your control amplifier to the AUX IN jacks on the amplifier.



CD player (etc.)

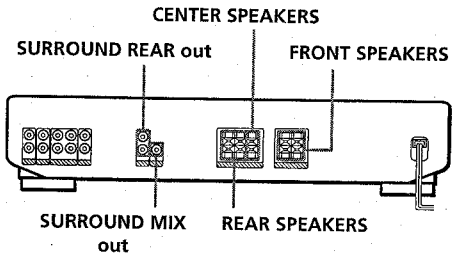
Connect the LINE OUT jacks on your CD player (etc.) to the AUX IN jacks on the amplifier.



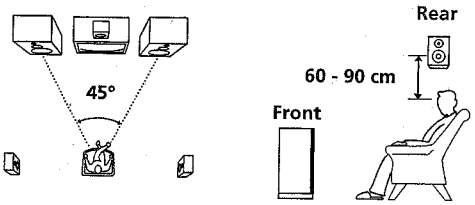
Speaker System Hookups

Overview

This section describes how to connect your speakers to the amplifier. Connecting an active woofer will increase bass response.
For specific locations of the terminals, see the illustration below.



For optimum surround sound effect, place your speakers as shown below.



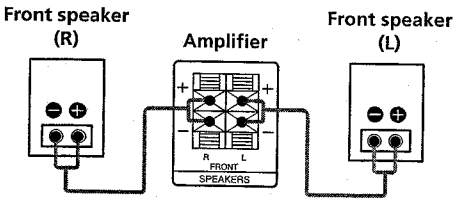
What cords will I need?

Speaker cord (not supplied) (1 for each speaker)

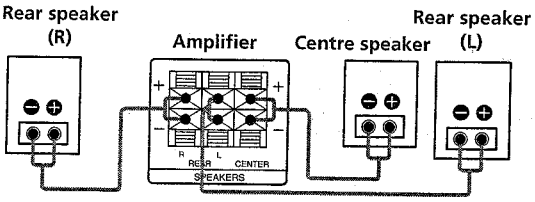
Twist the stripped ends of the cord about 2/3 inch (15 mm). Be sure to match the speaker cord to the appropriate terminal on the components: + to + and – to –. If the cords are reversed, the sound will be distorted and will lack bass.

Hookups

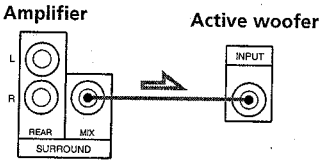
Front speakers



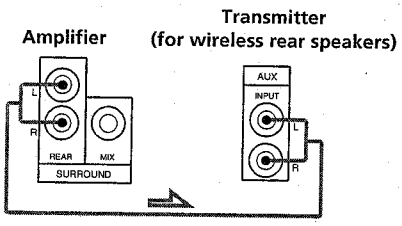
Rear and centre speakers



Active woofer



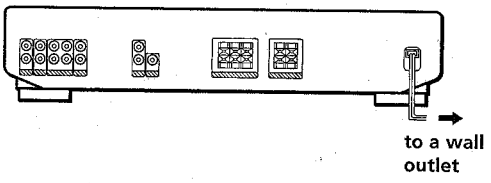
- **When using wireless rear speakers**
  You can connect the wireless rear speaker system using the SURROUND REAR out pin jacks.



AC Hookups

Connecting the mains lead

Connect the mains lead from this amplifier and from your audio/video components to a wall outlet.



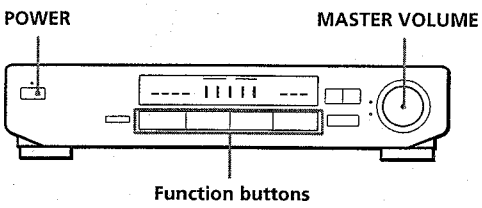
Before You Use Your Amplifier

Make sure that you have turned MASTER VOLUME to the leftmost position (0).

Selecting a Component

To listen to a connected component, first select the function on the amplifier or with the remote.
Before you begin, make sure you have:

- Connected all components securely and correctly as indicated on pages 5 to 6.
- Turned MASTER VOLUME to the leftmost position (0) to avoid damaging your speakers.



1 Press POWER to turn on the amplifier.
Using POWER OFF on the remote puts the amplifier in STANDBY mode. Press one of the Function buttons to turn on the power, using the amplifier, when it is in STANDBY mode.

2 Press a function button to select the component you want to use:

To listen to	Press
Video tapes	VIDEO 1
TV programmes	TV
Laser discs (or video tapes)	VIDEO 2
Records, Radio programmes, Compact discs (CD), Audio tapes, or MiniDiscs (MD)	AUX*

* If you connected an additional audio component to the AUX IN jacks as shown on page 5.

3 Turn on the component, the VCR for example, and start playback.

4 Turn MASTER VOLUME to adjust the volume.

To	Do this
Mute the sound	Press MUTING. Press again to restore the sound
Reinforce the bass	Press BASS BOOST to turn on the BASS BOOST indicator.

Watching video programmes

To take full advantage of the amplifier's surround sound effects, like Dolby Surround, turn off the speakers on your TV before you start. This also lets you use the amplifier's remote to control the sound.

To watch TV programmes, do the following:

1 Turn on your TV.

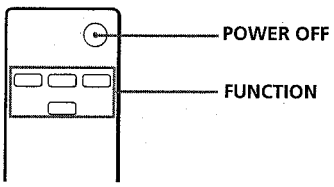
2 Turn on the amplifier and press TV.

To watch videos or laser discs, do the following:

1 Turn on your VCR or LD player.

2 Turn on the amplifier and press VIDEO 1 (to watch a video).

Using the remote



1 Press one of the FUNCTION buttons to select the component you want to use. When the amplifier is in STANDBY mode, the power turns on and the input switches to the component you selected.

To listen to	Press
TV programmes	TV
Video Tapes	VIDEO 1
Laserdiscs (or video tapes)	VIDEO 2
an audio component	AUX

2 Start playback.

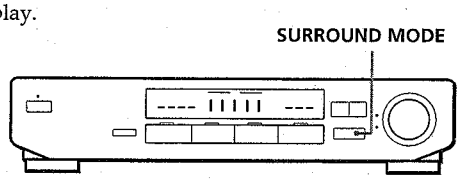
To turn off the amplifier
Press POWER OFF.

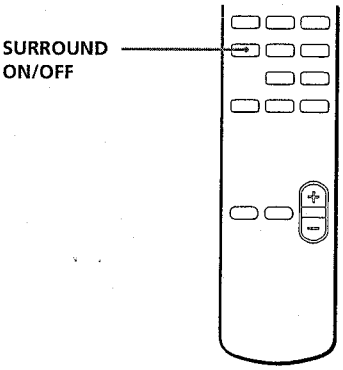
Note

This unit switches between audio inputs only.
Use your TV or VCR to switch between visual inputs.

Choosing a Surround Mode

You can take advantage of surround sound simply by selecting one of the three pre-programmed surround modes according to the type of programme you wish to play.





1 Press SURROUND MODE to turn on the surround sound.
One of the SURROUND indicators lights up in the display.

2 Press SURROUND MODE repeatedly until the indicator for the surround mode you want lights up.
Select the appropriate surround mode as follows:

Select	To
PRO LOGIC	Decode programmes processed with Dolby Surround and create the atmosphere of a movie theatre.
C. STUDIO	Reproduce the acoustics of a movie theatre. Ideal for soft, acoustic sounds.
SIMULATED	Create a simulated surround sound from monaural sources such as old movies or TV programmes.

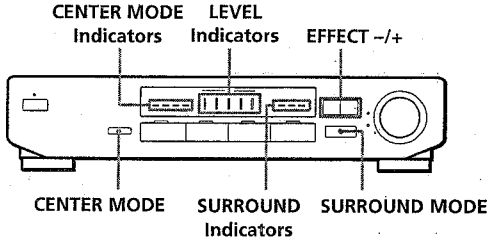
To turn off surround sound
Press SURROUND ON/OFF on the remote.

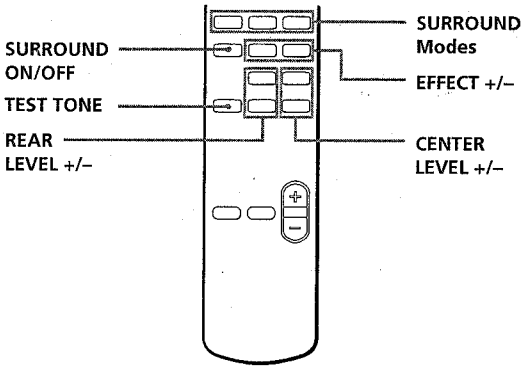
You can find Dolby Surround-encoded software by looking at the packaging
However, some videos and laser discs may use Dolby Surround sound even if it's not indicated on the package.

Getting the Most Out of Dolby Pro Logic Surround Sound

To obtain the best possible Dolby Pro Logic Surround sound, first select the centre mode according to the speaker system you have. Then, adjust the volume of each speaker.

Note that you must connect the rear speakers and/or one centre speaker to do the following adjustments.





(continued)

Selecting the centre mode

The amplifier offers you four centre modes: Phantom, Normal, Wide, and 3 Channel Logic. Each mode is designed for a different speaker configuration. Select the mode that best suits your speaker's system configuration:

1 Press SURROUND MODE repeatedly to select the PRO LOGIC sound field.
The CENTER MODE indicator may not light immediately when using SURROUND MODE on the amplifier to select the PRO LOGIC.

2 Press CENTER MODE repeatedly until the indicator for the centre mode you want lights in the display. Select the centre mode as follows:

If you have	Select	So that
Front and rear speakers, no centre speaker	PHANTOM	The sound of the centre channel is output from the front speakers.
Front and rear speakers, and a small centre speaker	NORMAL	The bass sound of the centre channel is output from the front speakers (because a small speaker cannot produce enough bass).
Front and rear speakers, and a large centre speaker	WIDE	For "complete" Dolby Pro Logic Surround sound.
Front and centre speakers, no rear speaker	3 CH LOGIC (3 Channel Logic)	The sound of the rear channel is output from the front speakers.

Adjusting the speaker volume

The test tone feature lets you set the volume of your speakers to the same level.
You can only use the test tone when the surround mode is set to Pro Logic.

Using the controls on the remote lets you adjust the volume level from your listening position.

1 Press TEST TONE on the remote.
You will hear the test tone from each speaker sequentially.

2 Adjust the volume level so that the test tone from each speaker is at the same level from your listening position.
- To adjust the level of centre speaker, press CENTER LEVEL + or – on the remote.
- To adjust the level of rear speakers, press REAR LEVEL + or – on the remote.

3 Press TEST TONE on the remote to turn off the test tone.

You can adjust all speakers at one time
Adjust MASTER VOLUME on the amplifier or remote.

Note
The centre and rear levels are indicated on the LEVEL meter in the centre of the display during adjustment.

Adjusting the Effect Level (for C. STUDIO and SIMULATED only)

You can make the surround sound more prominent by increasing the EFFECT level. This control lets you adjust the "presence" of the surround effect in five steps (1-5).

1 Start playing a programme source.

2 Use EFFECT (–/+) to select the level you prefer.
The effect level is indicated on the LEVEL meter in the centre of the display.

Note
Changing the effect level may not produce major variations in the surround effect when used with certain playback sources.

Troubleshooting

If you experience any of the following difficulties while using the amplifier, use this troubleshooting guide to help you remedy the problem. Should any problem persist, consult your nearest Sony dealer.

There's no sound or only a very low-level sound is heard.

- ➡ Check that the speakers and components are connected securely.
- ➡ Press MUTING if the MUTING indicator turns on.
- ➡ Make sure you select the correct component on the amplifier.
- ➡ Check whether or not you used the appropriate AV cables.

The left and right sounds are unbalanced or reversed.

- ➡ Check that the speakers and components are connected correctly and securely.

Severe hum or noise is heard.

- ➡ Check that the speakers and components are connected securely.
- ➡ Check that the connecting cords are away from a transformer or motor, and at least 10 feet (3 meters) away from a TV set or fluorescent light.
- ➡ Place your TV away from the audio components.
- ➡ The plugs and jacks are dirty. Wipe them with a cloth slightly moistened with alcohol.

No sound or only a very low-level sound is heard from the rear speakers.

- ➡ Select the appropriate centre mode (see page 9).
- ➡ Adjust the speaker volume appropriately (see page 9).
- ➡ Make sure you turned on the surround mode.

Note

The Dolby Surround effect is dependent on the software and reception mode being used.
Check the speaker levels using the test mode and make sure to use stereo recordings and to set the TV and VCR to stereo reception mode.

No sound is heard from the centre speaker.

- ➡ Select the appropriate centre mode (see page 9).
- ➡ Adjust the speaker volume appropriately (see page 9).

Surround effect cannot be obtained.

- ➡ Make sure you turn on the surround mode.

No picture or an unclear picture is seen on the TV screen.

- ➡ Place your TV away from the audio components.

Recording cannot be made.

- ➡ Check that the components are connected correctly.

The remote does not function.

- ➡ Point the remote at the remote sensor ▣ on the amplifier.
- ➡ Remove the obstacles in the path of the remote and the amplifier.
- ➡ Replace both batteries in the remote with new ones if they are weak.
- ➡ Make sure you select the correct function on the remote.

Specifications

Amplifier section

Power output

Surround mode (DIN 1 kHz)
Front:
25 W+25 W/8 ohms
Centre:
25 W/8 ohms
(only in the PRO LOGIC and C. STUDIO modes)
Rear:
10 W+10 W/8 ohms

Frequency response VIDEO 1 + 2, TV, AUX:
20 Hz - 20 kHz ±2 dB

Audio section

Inputs

	Sensitivity	Impedance
VIDEO 1, VIDEO 2, TV, AUX	150 mV	50 kilohms

Outputs VIDEO 1 REC:
Voltage 150 mV,
Impedance 470 ohms
REAR, MIX:
Voltage: 1 V
Impedance: 1 kilohms

BASS BOOST +7 dB at 60 Hz

General

Power requirements 220-230 V AC, 50/60 Hz

Power consumption 110 W

Dimensions 430 x 95 x 280 mm
(17 x 3 3/4 x 11 1/8 inches)

Mass (Approx.) 4.6 kg
(10 lb 2 oz)

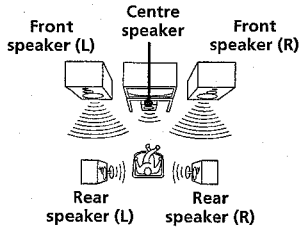
Supplied accessories Remote controller
(remote) (1)
Size AA (R6) batteries (2)
Scart adaptor (1)

Design and specifications are subject to change without notice.

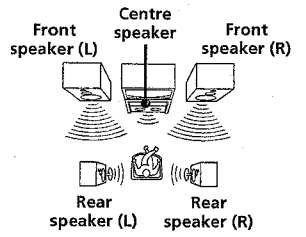
Glossary

Centre mode
Setting of speakers to enhance Dolby Pro Logic Surround mode. To obtain the best possible surround sound, select one of the following four centre modes according to your speaker system.

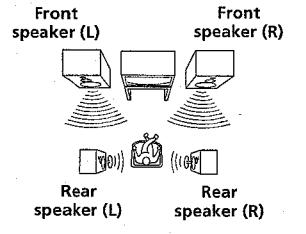
- **NORMAL mode**
  Select NORMAL mode if you have front and rear speakers and a small centre speaker. Since a small speaker cannot produce enough bass, the bass sound of the centre channel is output from the front speakers.



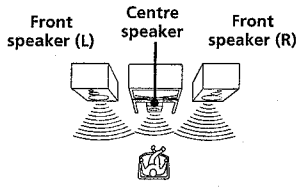
- **WIDE mode**
  Select WIDE mode if you have front and rear speakers and a large centre speaker. With the WIDE mode, you can take full advantage of Dolby Surround sound.



- **PHANTOM mode**
  Select PHANTOM mode if you have front and rear speakers but no centre speaker. The sound of the centre channel is output from the front speakers.



- **3 CH LOGIC mode**
  Select 3 CH LOGIC mode if you have front and centre speakers but no rear speaker. The sound of the rear channel is output from the front speakers to let you experience some of the surround sound without using rear speakers.



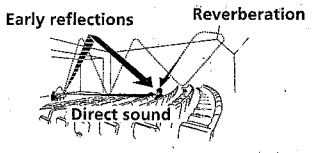
Dolby Pro Logic Surround
Decoding system of Dolby Surround sound standardized in TV programmes and movies. Compared with the former Dolby Surround system, Dolby Pro Logic Surround improves sound image by using four separate channels: off-screen audio effects, on-screen dialog, left-to-right panning, and music. These channels manipulate the sound to be heard and enhance the action as it happens on the screen. To take advantage of Dolby Pro Logic, you should have at least one pair of rear speakers and/or one centre speaker. You also need to select the appropriate centre mode to enjoy a full effect.

Dolby Surround
Encoding and decoding system of Dolby Surround sound for consumer use. Dolby Surround decodes the extra channels on the Dolby Surround-encoded sound tracks of movie videos and TV programmes and produces sound effects and echoes that make the action seem to envelop you.

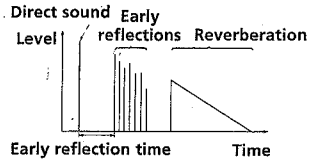
The amplifier offers Dolby Surround (PRO LOGIC) as one of the pre-programmed sound fields. If you have rear or centre speaker(s), we recommend that you customize the Dolby Surround sound field (PRO LOGIC) by selecting the appropriate centre mode to take advantage of Dolby Pro Logic Surround sound.

Surround sound
Sound that consists of three elements: direct sound, early reflected sound (early reflections) and reverberative sound (reverberation). The acoustics where you hear the sound affect the way these three sound elements are heard. These sound elements are combined in such a way that you can actually feel the size and the type of a concert hall.

- **Types of sound**

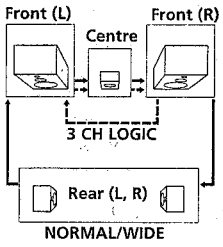


- **Transition of sound from rear speakers**

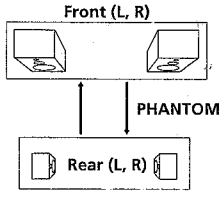


Test tone
Signal given out by the amplifier for adjusting the speaker volume. The test tone will come out as follows:

- **In a system with a centre speaker (NORMAL/WIDE/3 CH LOGIC modes)**
  The test tone is output from the front L (left), centre, front R (right), and rear speakers in succession.



- **In a system without a centre speaker (PHANTOM mode)**
  The test tone is output from the front and the rear speakers alternately.



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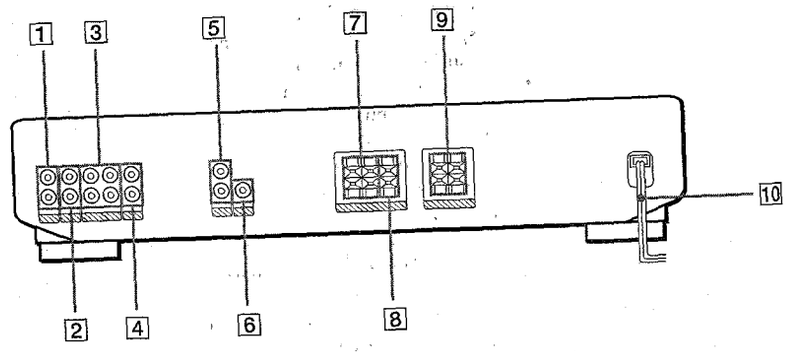

1 AUX IN
2 VIDEO 2 IN
3 VIDEO 1 (Audio in/out)
4 TV (Audio in)
5 SURROUND REAR out
6 SURROUND MIX out
7 REAR SPEAKERS
8 CENTER SPEAKERS
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10 Mains lead